

The Tech

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Vol. LXXVII No. 12

CAMBRIDGE, MASSACHUSETTS, FRIDAY, MARCH 22, 1957

5 CENTS

to think and to see'

Offer Art Courses Next Fall

A program in the Visual Arts, to be inaugurated next Fall, was approved by the faculty, Wednesday. The program consists of four courses in the Department of Architecture which will comprise Field 10 among the Junior-Senior sequences of Humanities electives.

Professor Albert Bush-Brown will give two courses, numbered 4.65 and 4.66, in History of Architecture. Professors Gyorgy Kepes and Robert O. Preusser will give courses 4.031 and 4.032 in Visual Design.

The program is an outgrowth of a study initiated by John E. Burchard, Dean of the School of Humanities and Social Studies, and conducted by the five-man Committee for the Study of the Visual Arts. The results of the study were published in a report titled: "Art Education for Scientist and Engineer" which will soon be made public.

"Until very recently American educational thinking has tended to disregard the visual arts as a field of universal, practical necessity above the elementary level," the committee said in the report. "Even now the great majority of high school and college students will terminate their formal education without any experience of the visual arts, although it would be unthinkable that any one of them should not have had training in the use of words or an exposure to some form of temporary nature . . .

"As a result, there is a discrepancy between the average freshman's ability to think and to see. Already scholastically mature, he has yet to learn his ABC's in visual terms."

In a foreword to the report, Dean Burchard commented, "A great many young men and women are graduated from our institutions of higher learning visually 'illiterate'. Art and architecture will not flourish in our culture unless there are both talented artists and sensitive customers. The American university can take something less than pride in its present attitude toward the visual arts."

The courses in architectural history will utilize lectures, conferences, field trips, examinations and long es-

(Continued on page 6)

says to give a historical picture of great architecture and city-planning of the past—especially during the Renaissance and the Twentieth Century. Sponsors of the courses hope "to develop capacity for discriminating style and for making objective critical judgments upon quality in art."

Creative expression in art is cited as the aim of the courses in visual design. Visual Design Problems 4.031 will be a prerequisite for Visual Design Projects 4.032. During the second term, a free choice of projects by the student will be encouraged. The courses will include studio sessions in which Professor Preusser, himself an artist, will give leadership to students in painting.

The program in Visual Arts will be roughly patterned after the Music program, according to Dean Burchard. Several years ago, he said, the Humanities Department made the decision to concentrate solely on Music until that program became established, then emphasize art. "It's now that time," he added.

The Committee for the Study of the Visual Arts conducted its study during the period 1952-54 but the report was not published so that a

Bush To Be Corporation Chairman; Fills Seat Last Held By Dr. Compton

by Jon Wigert

Dr. Vannevar Bush, it was announced today, has been elected Chairman of the corporation. He will succeed the late Dr. Karl T. Compton in the position which has been vacant since Dr. Compton's death. Although, since 1939, Dr. Bush's only official connection with the Institute has been as a life member of the corporation, his name is intimately linked with the school.

A graduate of Tufts University, Harvard University, and MIT, Dr. Bush joined the MIT faculty in 1919 as Associate Professor of Electrical Power Transmission—after doing work at the Navy's antisubmarine laboratory during World War I. In 1923 he attained a full professorship, and, nine years later, was made vice president and Dean of the School of Engineering, the position he held until 1938 when he became president of the Carnegie Institute of Technology. While at MIT Dr. Bush developed the differential analyzer, the basis for all modern electronic calculating machines.

During World War II the differential analyzer facilitated solution of problems in ballistics, acoustics, structures, and atomic physics. In 1939 Dr. Bush began working on a system of scientific mobilization in the United States in the face of the outbreak of World War II. He was influential in forming the National Defense Research Committee and the Office of Scientific Research and Development both of which came under his leadership. After the war Dr. Bush did not see a complete realization of his plans for postwar scientific research, but, as the first chairman of the Research and Development Board, he was able to do much toward providing a basis for postwar progress.

Dr. Bush is a native of Massachusetts. Now in his sixties, he finds time for his hobbies of music, photography, and literature, and manages to be always working on some project at MIT or at his home-laboratory in Belmont where he and his

(Continued on page 3)



Dr. Vannevar Bush

Trial After Vacation For Appealed Cases

The MIT students appealing in the "riot" case will not go to court until sometime after spring vacation. Most of the twenty found guilty in District Court will appeal to the Superior Court; the appeal was originally set for last Monday, but at that time a continuance was granted so that the defendants might have time to make decisions on their cases.

No official Institute support will be given the defendants. Most have hired lawyers privately; and it is not yet known how many will waive a jury trial.

The Tri-Regional Conference on Rising Enrollments will be larger than was expected, says Benson Chertok '57, former National Student Association coordinator here. About 170 delegates from fifty colleges will be a MIT March 29-31 for the CORE Conference.

The addresses, panel discussions, and discussion groups are open to all MIT students. A student may obtain information about these affairs by calling at Litchfield Lounge, Walker Memorial, at any time during the Conference.

The keynote address will be delivered by Dr. Edward Eddy, Vice-President of New Hampshire University, on Friday, March 29, at 8:00 p.m. in Kresge Auditorium.

In addition to the speakers originally announced, Congressman George McGovern, South Dakota, and Professor Chandran Devanesan of Madras Christian College, South India, will participate. The other speakers include the Associate Provost of Columbia University and the Deans of Radcliffe College and Boston University.

Several faculty and administration members at MIT will also participate—among them, Chancellor Julius A. Stratton.

About 100 of the delegates will be housed in Baker House.

The Conference is Tri-Regional, which means that delegates will represent colleges in New England, New York, Pennsylvania, and the District of Columbia.

CRUSADE

News of an urgent and compromising nature, hitherto withheld from a free press and a free people, will be aired in a special issue of The Tech on sale at 9:00 a.m., April 1, in the Lobby of Building 10.

'Oh To Be In Stitches . . .'



Dormcon Motion Asks Institute For Power To Set Rent Rates, Subsidy

A motion proposing complete government control of the assigning of dormitory rents met with mixed feelings in the closing minutes of this week's Dormitory Council meeting. The motion proposed by Conrad Revak '58 of East Campus for John Friedman '57, contained six points; four of which were concerned with the transfer of rent-assigning authority to Dormitory Council and to individual house committees.

The motion was put on the floor late in the meeting; and met with objections from Lewis H. Cohen '58 who claimed the motion was not in order because the committee had no knowledge of the specific items which it contained. Cohen's objection was voted down; but before anything else could be done a motion for adjournment took the floor and closed the meeting.

Unique System

Revak's motion would institute a system unique to the U. S. college scene. It stated, "That the Dormitory Council suggests that the administration delegate to it the authority and responsibility of settling rent rates for the dorms, providing

that the total income shall meet the Institute's required figure . . . Dorm Council shall determine the total income required of each of three houses . . . that responsibility of setting rates in the individual houses be delegated to the individual house committees . . . that the Dorm Council adopts as a basis for rents the principle of financial self-sufficiency . . ."

Administration Aids

The last two proposals were for an average \$90 difference between Baker and the other houses, and for administration help in paying off the Baker building costs "such that Baker rents can be priced on a sound economic basis . . ."

Arnold Amstutz '58, UAP, commented that he was "behind the first four principles wholeheartedly. This is a sound idea—it lets the dorms take direct and realistic steps toward solving their own problems. The part concerning higher Baker rent will meet with dispute, but the Baker boys should face the facts and recognize that they must pay for what they get."

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reviews

One of cinema's standard comedy characters is the brawny brute who can somehow manage to make people laugh by beating his chest and grunting like an ape. Fortunately, Sidney Gillant and Frank Launder, the producers of "Wee Geordie," have taken a new slant on the strong man, and the highly entertaining result is this gentlest of satires on muscle-building and small-town provincialism.

As the story opens, "Wee" Geordie is the smallest boy in his grammar school class and in the process of developing an inferiority complex because of his size. Inspired by a newspaper ad promoting a correspondence course in muscle-building given by "Henry Samson, Physical Culturist," our hero begins his slow ascent to fame. After going from runt to rugged he-man (he even earns a Masters Degree in Physical Culture), he is faced with the problem of what to do with his sturdy physique. Taking up a suggestion from his tutor to "throw something," he throws the nearest thing at hand—a sledge hammer—and thus begins an athletic career that eventually brings him a berth on the British Olympic team. He returns from the games to his native Scotland, still the same home-town boy, and marries the girl next door.

Bill Travers, in the title role, plays the sincere, unsophisticated and strong-willed Scotsman with a great deal of skill. The setting in the midst of the stately, serene Scottish Highlands provides some beautiful scenic photography. Alastair Sim, the utterly disorganized, incorrigibly absent-minded, but kind and paternalistic proprietor of the local estate, once again displays his fine sense of comedy. While a Scottish friend of ours claims that Norah Gansen, who plays the girl back home, did a poor job of reproducing the Scottish accent, we must admit that Miss Gansen is so elegantly proportioned that we paid little attention to anything she said at all.

Although the acting is certainly of a high calibre, the outstanding feature of this film is its script. The situation is full of comic possibilities, and these are utilized with extremely good taste, without letting the whole thing degenerate into a slapstick farce. For instance, there is something intrinsically funny about Geordie returning home, an Olympic hero, to be snubbed by the whole town because of reports that he had two-timed his Scottish sweetheart by carrying on with a woman shot-putter from Denmark. In contrast to the robust delegation that saw him off to Australia before his record-shattering performance, he is greeted after his triumph only by his mother and the station master at the train station, the one who still loves him "in spite of everything," the other who has a job to do.

Short subjects, including a nice bit of pageantry by the Queen's Guard performing at Buckingham Palace, round out this program at the Exeter St. Theatre.

—Fred Epstein '57

faculty report

This article is intended to present a few of the viewpoints of the Faculty Committee on Student Environment. It is not intended, however, to be an endorsement of such viewpoints by THE TECH.

The primary concern of the Faculty Committee on Student Environment is the educational situation of the student outside the academic program. This is the broad base upon which the committee operates and the following is a condensation of the last report of the committee, that for the year 1955-56.

The committee feels that the general purpose of the academic program at MIT is "to provide for maturing our students intellectually, socially, and morally to prepare them for leadership in their professions and . . . self-satisfying lives." In order that the influence of MIT on the students' maturation be best realized, it is the opinion of the committee that every chance for educational social intercourse be developed. Since relationships with the faculty are ex-

tremely valuable in this respect, stress should be placed on the importance of increasing the frequency of such contacts.

An attitude of responsibility towards the community and resulting successful integration can be aided by subjecting the individual to as many opportunities for individual leadership as possible. Ideally this should occur in an environment where the non-leader also is sensitive to the problems surrounding him, the approach to their solutions, and the significance of individual participation.

The committee reports that the above arguments imply "the common denominator of environmental policy: subdivision into small groups with overlapping membership." The suggestion is that all opportunities be seized for the development of social groupings which allow for more of the faculty and student body to participate individually and jointly in the affairs of the community. Solution is suggested, and, in some cases, now attempted, through the following channels:

(a) Diversity in eating and sleeping groups (that is, groups which are heterogeneous with respect to their economic and social backgrounds and spheres of interest) which are self-contained autonomous bodies, constructed in such a way so as to provide maximum opportunities for leadership; facilities for small and closely-knit social and dining groups would be particularly advantageous in this respect.

(b) The every-day opportunities associated with formal education; departmental social and study groups and facilities of the professional society would possibly provide the means toward both extra-curricular enlightenment and making the educational process more meaningful, inspirational, and valuable.

(c) Organized extra-curricular hobby and activity groups, such as musical and dramatic clubs, whose function would be to provide an outlet for those interested in these fields to learn and, once again, to provide an opportunity for the development of individual ties and sense of belonging.

(d) Community service projects: blood drives, for example, religious groups.

(e) Intramural and varsity sports.

As has been stated, the role of the faculty in the above program is considered to be of great importance. Despite the faculty's position as essentially a commuting body, which might handicap, to a certain extent, realization of the above program, the feeling in the report is that there is an active and "widespread desire in the faculty to participate directly in extra-class activities and to develop a more intimate rapport with the student body.

The report also dealt specifically with the problems of the non-resident or commuting students and the barriers which narrow their opportunities to benefit from undergraduate experience. According to the report, there seems to be some kind of "loss of direction" among those non-residents who live with parents and relatives. To encourage integration of these students, the report suggested that it be a general practice that all first-year unmarried students be encouraged to live in a dormitory or fraternity, and that if there be handicaps of a financial nature to such an arrangement, attempts should be made to gain aid from the Student Aid Office. Also, it was felt that improvements in these respects would result through better organization and expansion of necessary facilities.

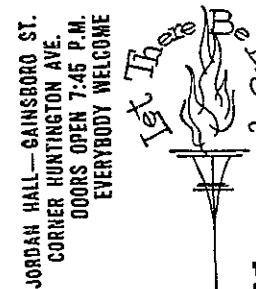
As regards hazing, the committee reached essentially the same conclusions last year following their re-analysis of fraternity hazing, as did the IFC. These involved the focal points of taste, physical and emotional dangers, and the necessity of a constructive pledge training program. Since Inscomm's elimination of pre-field day hazing of freshmen, the committee has been one of the bodies studying the problem and the possible constructive substitutes for hazing.

Pertinent at the moment and considered in the report is the problem of rules of conduct. The committee has tried to avoid rules and regulations here, and by this, perhaps contribute to a more mature undergraduate community. It is felt that institute policy must conform to community standards and public attitudes. Open House rules and rules prohibiting rioting have been particularly necessary. As far as rioting is concerned, the committee states that "the long-run solution to the special problem of spring riots would best be handled . . . through student leadership rather than by threatening actions."

This report was prepared under the chairmanship of Professor James W. Daily. This year's chairman is Professor Walter H. Stockmayer of the Chemistry Department.

Evidence of the precision and value of the work done by the committee has been the support and agreement of the Undergraduate Policy Committee and the Ryer Committee.

—William A. Cramer



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Prof. Walter Stockmayer

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isplay Of Fashion



Technology Dames, wives of MIT students, staged a Fashion Show in Kresge Auditorium, Monday evening, March 18. All proceeds were contributed to the support of a Hungarian student at MIT. Unfortunately The Tech's photographer was too bashful to ask the attractive young lady her name.

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All-Tech Sing At Kresge On April 6; Sig Ep Defends Title

Preparations are being made for the All-Tech Sing, sponsored by Baton Society, which will be presented in Kresge Auditorium, Saturday, April 6 at 8:15 o'clock. At present, over a dozen living groups are participating in ensembles of four or more.

Three prizes will be awarded; the best performer will hold the championship trophy for a year. Last year, the trophy was retired by Sigma Phi Epsilon after three successive winning performances and remains a leading contender for this year's contest. A special award, "Egbert" will be given for the best novelty representation. Singing material is apt to range from sea chanties to calypso.

Salk Vaccine Given To Third Of Students

As of March 12 the Medical Department had given Salk vaccine to 1956 MIT students or about one-third of the total student body. In addition 1176 members of the faculty and staff (exclusive of the Lincoln Laboratory) have been vaccinated against polio.

Although students are still coming in to the Homberg Infirmary for their first shot at the rate of about fifty a day, Dr. Faulkner, the Medical Director, expressed disappointment at the poor showing. "Nothing less than one hundred per cent would really satisfy me," he said. "It takes nearly six months to build up immunity from the Salk vaccine and the polio season will be on us before we know it. It seems ironical that with an effective protection so easily available against this crippling disease so few individuals choose to avail themselves of it."

Professor William "Wild Bill" Green of the Humanities Department will emcee, and an excerpt from the "Tech Show" will be presented as an added attraction. Tickets will be available for 80 cents in the lobby of Building 10.

VANNEVAR BUSH

(Continued from page 1)

wife moved two years ago. His friends, who call him Van, describe Dr. Bush as one of those extremely likable persons with "such an honest manner that you know his every thought". This man who was in charge of the A-bomb project in its early stages, in his familiar coat and hat, might almost pass for a college student at first glance.

Dr. Bush's new position is mainly honorary. It will be his duty to preside at the four meetings a year of the corporation. This body is composed of about seventy people and makes the final decision on all important matters concerning the school. As Dr. Bush puts it, "I will have to do little and receive no pay."

Compton Lab '704' To Operate In Month On Research Studies

The new IBM "704" high-speed computer will be installed and operating within the next month, according to Professor Philip M. Morse, director of the Computer Center. The "704" is considered the fastest of its kind in the world; although MIT will not be the first to receive one, the Institute's "704" will be the first used exclusively for research purposes. The computer is now in crates in the Karl Taylor Compton Laboratories, which will be its permanent home.

The new computer will handle problems in economics—how can an automobile manufacturer best gauge his production and distribution?—space travel—what is the optimum earth-satellite orbit?—and nuclear reactor design. In addition, the "704" will provide solutions to many problems which "whirlwind" cannot handle.

Dr. Corbato, who now works on the older MIT computer "Whirlwind", listed several advantages that the "704" will have over "Whirlwind". The new IBM computer has a larger "memory" both at low and high speed calculations, it is a more compact design, it is more "flexible" which means it can do many different types of problems, and it is faster. However, according to Dr. Corbato, "Whirlwind" is still faster on some problems than is the "704". "Whirlwind" may be older but it has been improved as new ideas have been presented and it is far from "outdated".

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Housecomms Cold To Motion To Set Own Dormitory Rent Fees

At Tuesday's Dormitory Council meeting, the committee on rents from East Campus introduced a motion which would request the Administration to permit Dormcon to adjust the room rents in the dorms as long as the total income meets the minimum expected by the Institute. The motion was received coldly by Baker and Burton House committees at their meetings Wednesday night. However, the motion was almost unanimously endorsed by East Campus Housecomm.

Art Fiorelli '58, Secretary of Burton Housecomm, said that he felt that the motion was not in line with Institute policy. The motion would have each House bear its own burden of the cost, whereas it has been Institute policy to spread such costs over the entire dorm system. He said that the Burton representatives felt that the cost analysis in the motion was unrealistic.

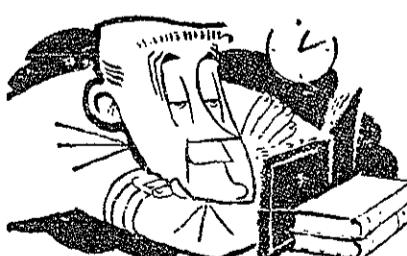
Paul Zeiger '58, President of Baker Housecomm, also felt that the figures in the motion were unrealistic. He pointed out that Baker House is expected to make a profit of twenty-two thousand dollars next year. Despite this fact the cost analysis in the motion proposes that room rents in Baker be raised so that the house can break even, which is inconsistent. He also pointed out that Graduate House is not under the jurisdiction of Dormcon, so that it would be impossible to determine the rents there, since the motion would have Dormcon completely responsible for determining rents throughout the dorm system.

At the East Campus meeting Adul Pinsuvana, Inscomm Representative, announced plans to renew the mimeographed East Campus newspaper to improve communications among the students there. The newspaper will be published once every two weeks.

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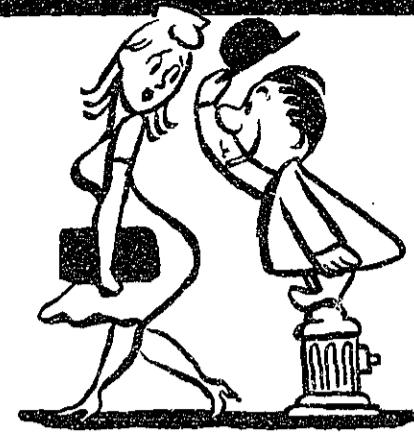
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Because there's romance in the air
Because you are so very fair!"
"There's a lot in what you've said.
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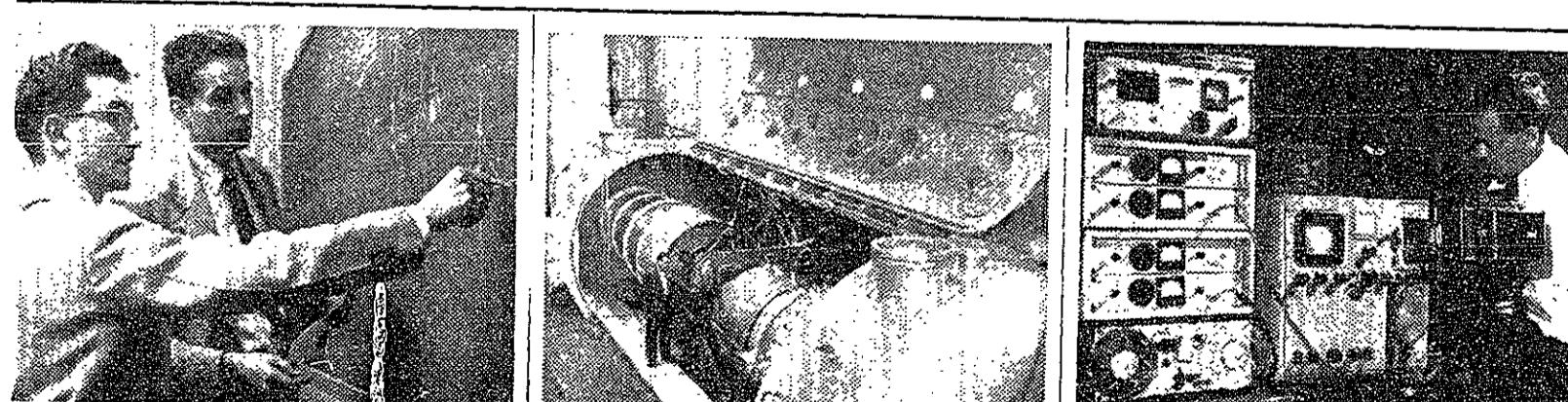
What's doing... at Pratt & Whitney Aircraft

Professors practice what they preach... and vice versa

Following a practice of twenty years, Pratt & Whitney Aircraft will again welcome a group of college professors as members of the engineering staff during the coming summer months.

Last year our "summer professors" represented colleges from coast to coast. They tackled important projects in such diverse fields as instrumentation and vibration, combustion, compressible flow, and materials development. Despite the limited time available to these men, they made significant contributions to our overall effort.

Though it was to be expected that both the company and the participating professors might benefit directly from such a program, the sphere of influence has been much broader. The many students who are taught by these professors during the college year are sharing the ultimate benefits... profiting from lectures that are sparked by the kind of practical experience that can be gained with a recognized industry leader like Pratt & Whitney Aircraft.



Several "summer profs" voluntarily spent part of their time conducting refresher courses for P & W A's young engineers.

One assignment involved a comprehensive survey of equipment for the expansion of high-altitude test facilities in Willgoos Laboratory, the world's most complete, privately owned jet engine lab.

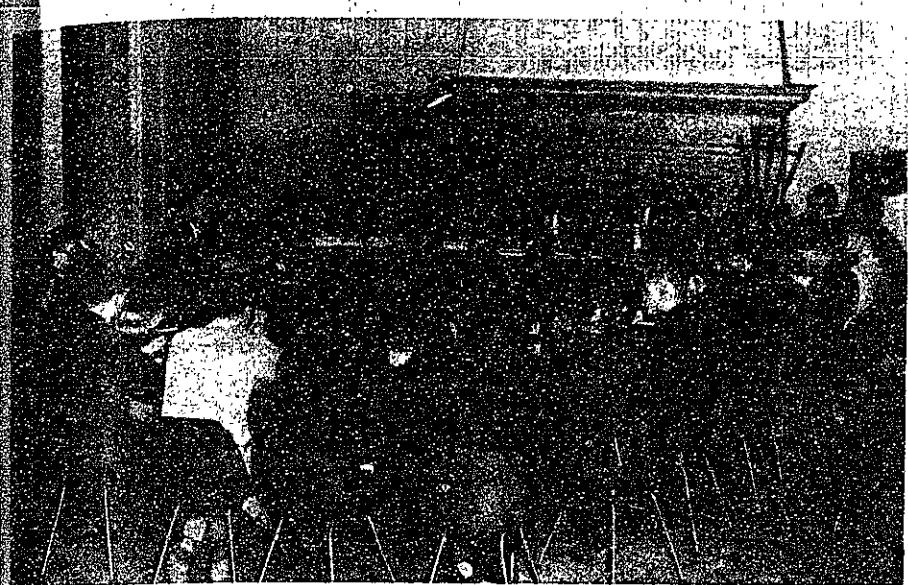
Technical contributions were varied. Worthwhile assistance was given in vibration and instrumentation studies.

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photographer's camera wishes to thank the table shown in this picture for graciously accommodating all twenty-four members of Institute Committee within the confines of its walls.

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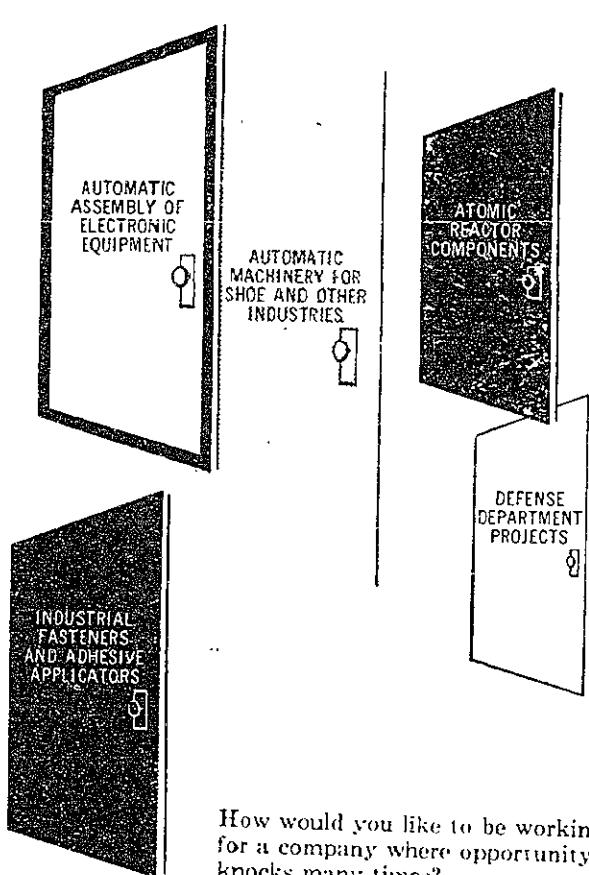
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Inscomm Adjourns Meeting To Hold Hazing Discussion

Hazing was once again the principal topic of discussion at the last Institute Committee meeting. Inscomm took the unusual measure of adjourning the meeting before considering the hazing question, as an expected committee report on the subject had not yet been completed.

President Arnold E. Amstutz '58 proposed a discussion on "Should the Institute Committee attempt to effect controls on hazing?" His right to ask the question was immediately challenged by Edward B. Roberts '57, who maintained that hazing is a "minor facet" of the Freshman orientation question. At this point the group agreed to adjourn the meeting formally but to remain and informally discuss hazing.

Two central questions emerged from the discussion. One can be summed up as "enforcement or no enforcement" of present Inscomm rulings which declare all hazing illegal. There was some uncertainty over the definition of hazing, so the Shultz Committee's definition of hazing as "involuntary physical harrassment" was submitted.

The second question was that of providing a suitable substitute for hazing. Lawrence M. Spiro '59 suggested more team competitions between Freshmen and Sophomores, with trophies for the victor and perhaps a bonfire or muglift thrown for the victor by the loser. James Benenson '58 added to this games resembling the glove fight in their rough and tumble nature, such as a "capture-the-flag" competition in a mud-filled arena. Ed Roberts said that "We need a whole system to replace the hazing."

Several members regarded hazing as of such importance to the MIT Community that it should not be wholly abolished. "Hazing is a tradition at MIT," said one representative, "and when we attempt to end hazing we are ending a tradition."

Inscomm has definitely decided to glass in bulletin boards to discourage poster stealing. Five spaces on each of the four major bulletin boards will be glassed and locked.

Uhlig Finds Rusting; -Gosh,--And Overtly!- Touts Anti-Corrosion

Why does iron rust in the rain while stainless steel stays bright? What is the outlook for reducing the nation's tremendous losses from the corrosion of metals?

These are among the questions which will be answered by Dr. Herbert H. Uhlig, Professor of Metallurgy in a Popular Science Lecture on Sunday afternoon, March 24.

Dr. Uhlig will speak in the second of this year's lectures by the Society of Arts at the Massachusetts Institute of Technology. The program, open to the public, will be in Room 10-250 at 4 p.m.

"Rust is not inevitable," says Dr. Uhlig. Indeed, science has made substantial progress in combating corrosion. But many problems remain unsolved, he says, and new conditions for the use of metals continually create new corrosion problems.

During Dr. Uhlig's lecture, he will give demonstrations illustrating how corrosion occurs in iron and copper and how it may be virtually halted by special techniques of modern metallurgy. Experiments will show why stainless steels resist rust—and how ordinary iron and steel may temporarily be equally resistant to corrosion.

NAUTICAL ASSOCIATION

The Nautical Association will hold Shore School on April 1—April 5, at 5:00 p.m. in room 2-390. All undergraduates, graduate students, and staff members who are interested in learning to sail are invited to attend.

Men in the know know true from false

Men who earn their way through college earn the most money afterward

TRUE FALSE

False. Statistics prove that men who earn nothing in college are more likely to enter the better-pay occupations.

Proportionately, there are more small-town men at college than city men

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True. Although only 24% of our population grew up in towns of 25,000 or under, this group produces 44% of all college men.

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TRUE FALSE

True. Jockey brand undergarments are famous for comfort. This trim fit with no bind or chafe literally makes you forget you have them on... they're designed to make you comfortably forget them.

Men on the go go for Jockey® underwear

BRAND
made only by *Coopers*®

Tennis Team Hopes For Improved Year Under New Mentor

In less than four weeks, the MIT netmen will take the courts for their first match of the 1957 tennis season. On the eight-man team are four returning lettermen from last year's squad.

The team is captained by John Pease '57. The other senior on the team is Boyd Givan. Also holdovers from last year are juniors Dick Hough, seeded number one, and Jim Barber. Promising Sophomores are Jeff Winicour, Bob Kenefick, Pete Moss, and Cris Kang. Winicour was ranked ninth among the New England Junior tennis players.

The Techmen have a new coach this year in Edward Crocker who is a graduate of Springfield, where he has been squash and tennis coach, as well as being captain of the tennis team.

MIT should have a well balanced team this year with no one player especially outstanding. Lost to the squad from last year are Juan Hermosilla and Dave Redhead. The freshman team will be coached by Redhead who is ineligible to play. Coach Crocker held fall practice this year to get acquainted with the talents of each of the men on the team. On Sunday the squad leaves on a Southern trip which will take them to the University of Maryland, North Carolina State, Hampden Sydney and Howard University. These encounters will be only practice scrimmages but should do a lot to whip the team into shape for the opener on April 17 at Harvard.

MIT faces an eleven-game schedule this year, and then will cap the season with the New England Intercollegiate Lawn Tennis Association Tournament at Trinity on the 17th and 18th of May, if any of the players look good enough to enter.

The match with Harvard should be a very tough, but good even competition can be expected with Brown, Colby, Bowdoin, BU, RPI, and the Coast Guard Academy. Rounding out the schedule will be Williams, Dartmouth, Wesleyan, and Amherst. Seven matches will be at home this year with only Harvard, Dartmouth, Wesleyan, and Coast Guard played away.

As a participant sport, tennis is especially rewarding for its accent on individuality. Because of the difficulty of assembling large groups of people, an individual sport will provide more opportunity for the average person to enjoy than a team sport.

Tennis as a spectator sport is especially good for its fast action. Some of the interest which this country has had in the past is being recaptured by the talk of having a tennis open as in golf, and interest is being awakened by the work with youngsters which some of our tennis stars have been doing.

MIT has a good schedule this year which is played mostly at home. A good attendance at these games will spur the team on, and will provide the spectator with good tennis play.

ART COURSES

(Continued from page 1)

program could be developed "in private."

The committee consisted of John Coolidge, director of the Fogg Museum at Harvard University; Robert Iglesias, chairman of the Department of Art at the University of Michigan; Bartlett H. Hayes, Jr., director of the Addison Gallery of American Art at Phillips Academy, Andover; Charles H. Sawyer, professor of art at the University of Michigan; and James J. Sweeney, director of the Solomon R. Guggenheim Museum in New York.

"Culture today is in a very great degree influenced by the canned images that we see—posters, advertising, movies, television," said Professor Kepes. "So much visual material is bombarding us that students don't have the visual training to be responsive in the best sense. People today are too word-minded. Some of the most wonderful minds are blind visually. The task of the visual arts courses will be to give guidance in the development of visual sensitivity."

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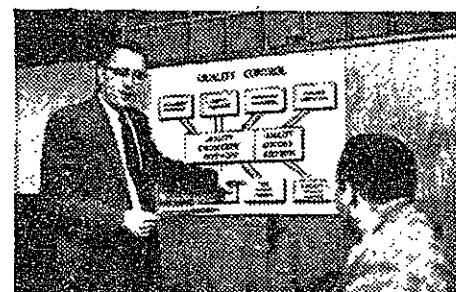


SONIC INDUSTRIES, INC. 19 Wilbur Street, Lynbrook, N.Y.



"I was tremendously impressed," says Nick, "by my first plant tour. When you go through the facilities—meet the men and get an idea of the problems they handle—you can't help but become interested. Add the friendly, informal work atmosphere, and you know right off the bat these people have a story to tell."

Nick came to IBM in 1951 with a B.S. in physics. He started as a Technical Engineer—in Test Equipment Engineering—working on an analog bombing system. When that project moved from the Endicott to the Poughkeepsie plant, Nick followed it, becoming first an Associate Engineer, then a Project Engineer. As the lat-



Heading up Quality Engineering

ter, he worked on IBM's first transistorized electronic computer—the 608.

By November, '55, Nick was heading up Quality Engineering in the Quality Control Division of the Poughkeepsie plant. Recently promoted to Administrative Assistant to the Quality Control manager, Nick now concerns himself with the fundamental operations and policies of this 450-man division. Quality Control is responsible for the performance of IBM's vast array of business machines—from simple sorters and punches to the "electronic brains."

What an IBM physicist does

"The problems of Quality Control in this business are endless," Nick reports, "and fascinating to the physicist. There's process control—of the manufacture of components such as transistors and cores . . . of the contents of a gas . . . of the concentricity of an etch solution . . . of the diffrac-

"What's it like to be A PHYSICIST AT IBM?"

Five years ago, college senior Nick Hemmer asked himself this question. Today, as Administrative Assistant to the Quality Control manager, Nick reviews his experience at IBM and gives some pointers that may be helpful to you in taking the first, most important step in your career as a physicist.

tion of alloys . . . or of the properties of metals, such as the resistivity of germanium. Then, there are the important 'analysis of failure' and reliability studies, in which you seek to determine, for example, the life



Problems fascinating to the physicist

expectancy' of a device, the mean time between failures, or perhaps which step in a process has the greatest effect on the equipment involved. You may be asked to control the deposit of glass on X-ray tubes to avoid spill-over, or microscopic spotting. Or you may be dealing with arc-suppression, or gaseous electronics, the grass roots of instrumentation; or in the estimation of tolerances, or



Extensive educational facilities

in correlation coefficients—that is, in physically sound numbers."

Nick has been instrumental in encouraging many college physics majors to come to IBM. "I find they're interested in questions like these," he says: "How would you go about determining the 'life' of electrons in transition from the valence to the conduction band?" Or, in the manufacture of magnetic inks, "How can the grain size of the iron content be controlled . . . or its viscosity regulated over wide temperature ranges? How would you control the concen-

tration and concentricity of colloidal solutions?" "Present a job in terms of actual problems," believes Nick, "and you'll get the man's interest—for it's his career and his future that have top priority."

How about further study?

Nick has taken full advantage of IBM's extensive educational facilities to get ahead at IBM. He took at least one course each semester on subjects within his immediate work area—courses on digital and analog computers and on their components such as cores and transistors. He found time to take management courses as well. "If you want opportunity for study," Nick says, "IBM will provide all you want."



Promotion almost inevitable

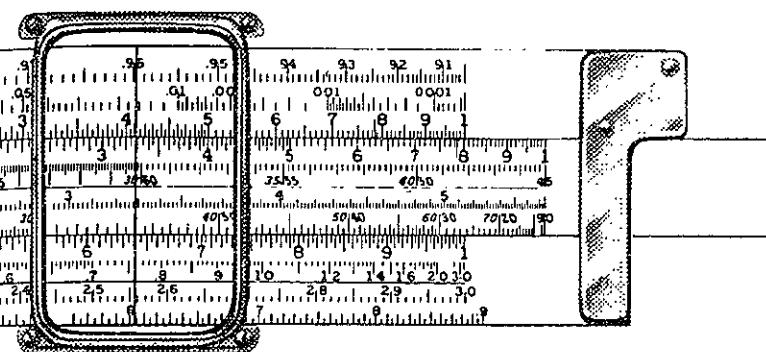
Asked about opportunities for advancement at IBM, Nick says, "The situation could hardly be better in that respect. With sales doubling every five years on the average, promotion is almost inevitable."

IBM hopes that this message will help to give you some idea of what it's like to be a physicist at IBM. There are equal opportunities for E.E.'s, M.E.'s, mathematicians and Liberal Arts majors in IBM's many divisions—Research, Manufacturing Engineering, Sales and Technical Services. Why not drop in and discuss IBM with your Placement Director? He can supply our latest brochure and tell you when IBM will next interview on your campus. Meanwhile, our Manager of Engineering Recruitment, Mr. R. A. Whitehorn, will be happy to answer your questions. Just write him at IBM, Room 9301, 590 Madison Ave., New York 22, N. Y.



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As a soon-to-graduate engineer you have a tough problem to solve and your slide rule won't help you much. We would like to offer you some sound advice. First, choose a career, not just a job. Compatibility between you and the company you choose will prove a prime requisite of your future success, satisfaction and personal happiness. Second, choose an established, stable company where a wide variety of engineering activities opens up many avenues of development for young engineers.

Federal offers you the really important things—opportunity for recognition and advancement, a company with a future, security and adequate compensation, and the chance to develop personal interests and initiative. Few other companies can offer you such a variety of electronic engineering activities, or as fine means of employing your talents in the field for which your training, experience and interests best suit you. The future is up to you.

For details of positions open to graduates, write
Mr. J. F. Connington, Technical Placement Director.



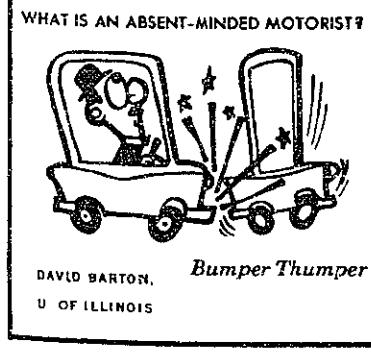
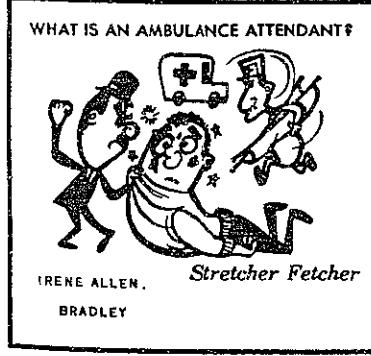
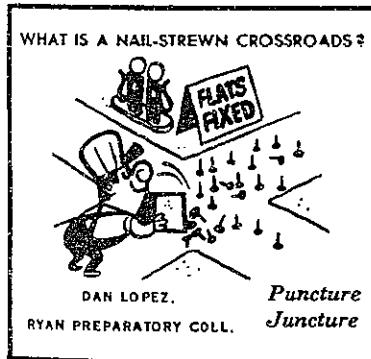
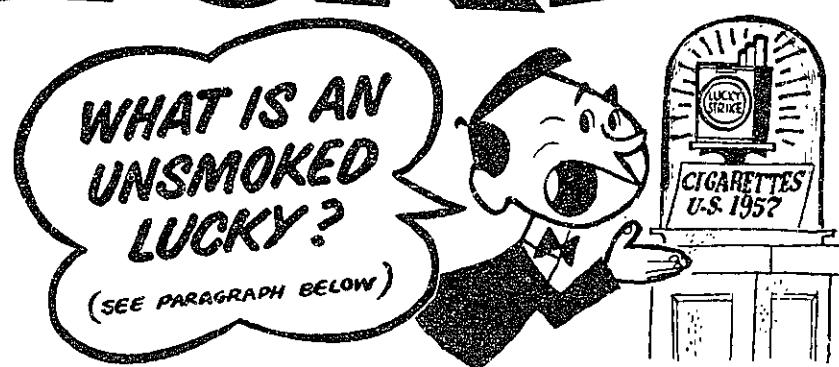
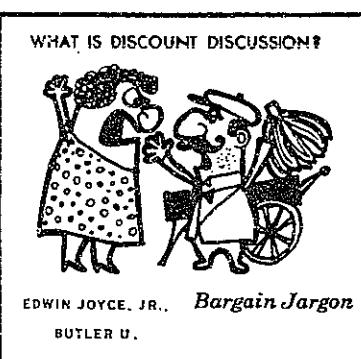
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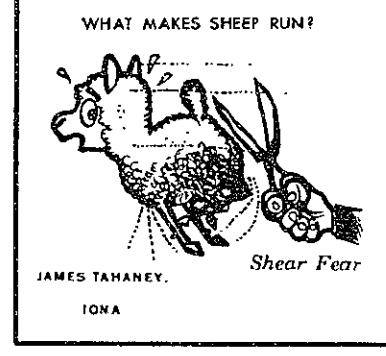
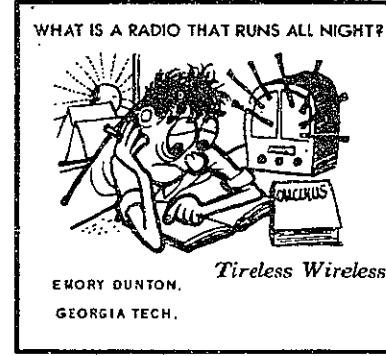
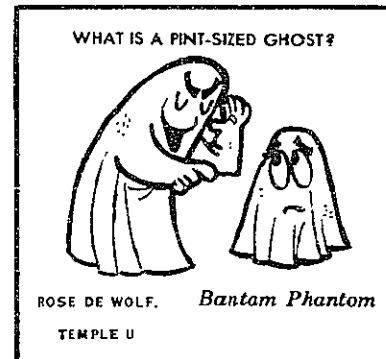
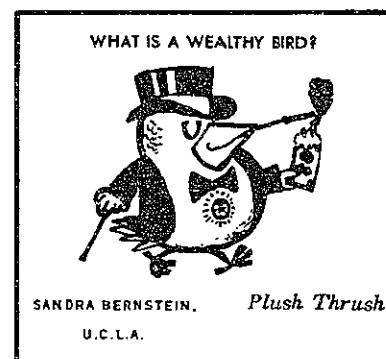
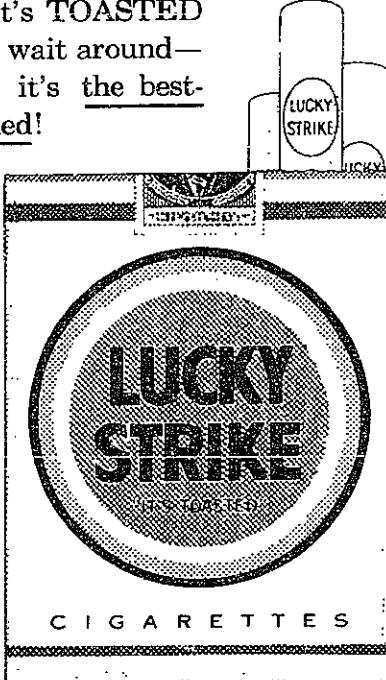
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Volleyball Teams Set To Enter Playoffs; Softball Heads List Of Spring Sports

Having completed play in all seven leagues of the intramural volleyball competition, the league leaders now move into the playoff rounds to determine the Institute Champion.

Although the standings were close in several of the seven leagues only one, league IV, produced a tie at the end of the season. Phi Gamma Delta and Burton House, each with 3-1 records, met in a playoff last Sunday and after three close contests the Fijis emerged the victors.

TEP Club edged Phi Delta Theta for the league V crown, as the last game of the season, which pitted these two teams against each other, was the decisive one. The TEP's wound up with a 4-0 record, while Phi Delt was one game back at 3-1. League VI produced the other close

finish, as Alpha Tau Omega nipped Sigma Chi by one game. Their records were the same as the top two of league V. In a season that was marked by general good play, League VII was the only one to be plagued by forfeitures, as Grad House A came home all alone with a 5-0 mark.

In other leagues the finishes were not too close. Sigma Alpha Epsilon A took first in I, Beta Theta Pi won II, and both held 4-0 records. The Betas B team captured league III, while the SAE B team trailed them in second position.

The playoffs commence the Tuesday after Spring Vacation, with four games on tap that evening. The winner will be decided in the final held on Sunday of the same week at 2 p.m.

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Upon the return of Tech students for the final portion of the Spring term the outdoor sports will take over the bulk of intramural activity. Softball heads the list, closely followed by Tennis, Swimming, Sailing, Track, and Golf.

Track provides one of the most exciting sporting days of the semester due to its intense rivalry and swiftness of action. The one-day affair promises to be the best ever.

Golf falls into the same category, that of a one-day affair, while swimming will probably last three days, and sailing two.

At the present Dave Berg, Intramural manager, is in need of managers for the oncoming sports of softball, track, tennis, and golf. Those who are interested and capable contact him at KE 6-1139.

Although the football season has long since ended, the playoffs were never completed. In reference to this we print an excerpt from the intramural council minutes:

"The council decided that all teams involved in the playoffs would be contacted and asked if they desired to finish the playoffs. They would be informed that if any one team desired to play, its opponent would have to play or else lose by forfeit. If no team desired to finish the playoffs, Sigma Alpha Epsilon would be credited with first place points, Theta Chi and Phi Gamma Delta would split second and third place points, and Beta Theta Pi would be awarded fourth place points."

Rugby Club Clashes With Crimson Twice

Last Saturday afternoon, the traditional spring crosstown rugby matches were played by MIT and Harvard behind the Crimson's stadium. In the opening contest, both clubs' second squads battled to a scoreless tie. Following this, the home teams' first fifteen downed the Engineers, 16-8.

In the first half of the double-header, the Beavers played with only fourteen men because of an injury to George Brown suffered early in the encounter. As there aren't any substitutions allowed, the Crimson held a one-man advantage throughout



The Tech Rugbyers meets the Crimson tide with gusto as their men pillar after the ambitious oval that is seen rising into the brisk winter breezes. The Tech first team lost but the second stringers tied the Harvard squads.

most of the contest. Quite a few of MIT's best players fought for the second fifteen, because they're unable to accompany the first team to California. Standouts for Tech in this match were Jerry Lyons and Joe Walsh.

The second encounter, following the pattern of play usually seen when these two squads get together, was quite rough. For the major part of the contest, both clubs played with only fourteen men due to mishaps that occurred soon after the opening whistle. Midway in the first half, Harvard opened the scoring with a three-point touchdown and followed

(Continued on page 8)

Duane, Kane Receive Awards At Swimming Banquet Ceremonies

An unusually colorful banquet held Tuesday culminated a highly successful season for both varsity and freshman swimming squads. In tradition the ceremony was opened with a summary of the season's activities by poet laureate, Doctor Avery Ashdown. Presentation of freshman numerals and varsity letters were then made by Charlie Batterman and Gordon Smith to their respective squads. Roger Kane '59 was recipient of the newly established Captain's trophy. The award was made available through funds contributed by past captains, and is presented to



Swimming team Captain Harry Duane '57 receives from Murray Kohlman '58 a silver platter inscribed "In token of your inspiration and leadership—1957 Swimming Team."

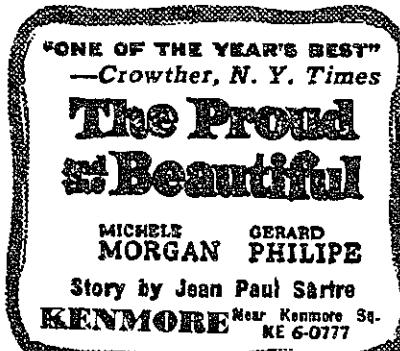
that swimmer, who in the opinion of the coaches and captain exemplified outstanding improvement and spirit. Harry Duane '57 was then presented with a silver tray, an expression of the appreciation his teammates feel for the outstanding job he did in constantly instilling ambition in them while controlling their activities through fine leadership. They followed this presentation with a unanimous vote to award Harry the coaches trophy, which goes to that swimmer who has done the most to further interest in swimming among his teammates and fellow students. The banquet ended with the election of Will Veeck '58 and Murray Kohlman '58 as co-captains for next year.

RUGBY

(Continued from page 7)

it with a conversion to take a 5-0 lead. Five minutes later the Crimson hit paydirt again to make the score 8-0, which it remained at halftime.

At the beginning of the closing half, the home squad registered another score. Immediately following this, Tech's John Funderburg raced through the opposing fifteen to tally, making the count 11-3. Towards the end of the contest Harvard scored again and this time they added the conversion, to make the final outcome 16-3.



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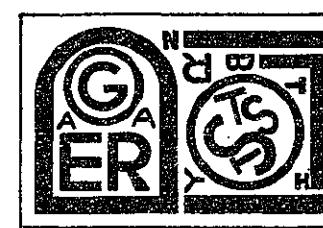
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TIE-BREAKING PUZZLE NO. 8

CLUE: This Nebraska coeducational college of liberal arts is affiliated with the Presbyterian Church. It was chartered and opened in 1882.

CLUE: Conducted by the Jesuit Fathers, this midwestern coeducational university was opened in 1877. It bears the name of the city in which it is located.

CLUE: This coeducational university was chartered in 1845 under the Republic of Texas. It is a Baptist school.

ANSWER 1. _____

ANSWER 2. _____

ANSWER 3. _____

Name _____

Address _____

City _____ **State** _____

College _____

NOTE THAT THE ABOVE PUZZLE CONTAINS THE NAMES OF THREE SCHOOLS FOR WHICH THREE SEPARATE CLUES ARE GIVEN.

Players may now mail their completed sets of 8 Tie-Breakers. Before mailing your puzzles, keep an accurate record of your answers. The 8 Tie-Breakers must be answered, neatly trimmed, and enclosed in an envelope, flat and not rolled and addressed to: Tangle Schools, P. O. Box 26A, Mount Vernon 10, N. Y., and bearing a postmark not later than April 5, 1957. Do not decorate or embellish the puzzles in any way. Do not include anything in the envelope but the puzzles.

If, after solutions have been submitted to this set of Tie-Breakers, a tie or ties still remain, those tied will be required to solve another tie-breaking puzzle, in accordance with the official Tangle Schools rules. These tie-breaking puzzles, if necessary, will be mailed to each contestant.

- Use business-size envelope 4" x 9 1/2" . . . sometimes referred to as a No. 10 envelope.
- Each of the puzzles must be neatly trimmed, separately, and placed in numerical order.
- No decorations please! Address envelope as shown.
- Your name and address MUST be on the BACK of the envelope ACROSS THE END and in the position shown in the illustration. Please print or type in CAPITAL LETTERS—LAST NAME FIRST. If mailed according to instructions, 6¢ postage should be enough.
- In the event of further ties, contestants will be mailed an additional tie-breaking puzzle form.

REMEMBER—ENTRIES MUST BE POSTMARKED NO LATER THAN FRIDAY, APRIL 5, 1957.

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